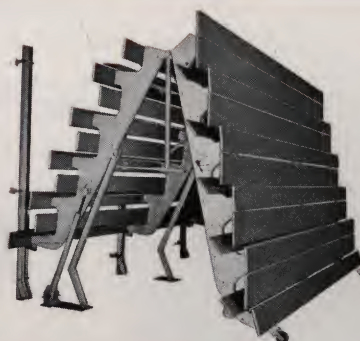
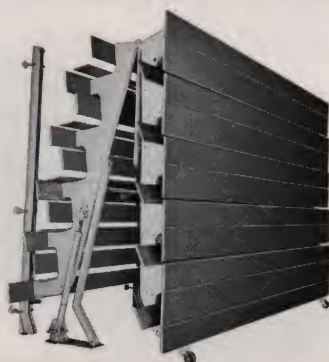
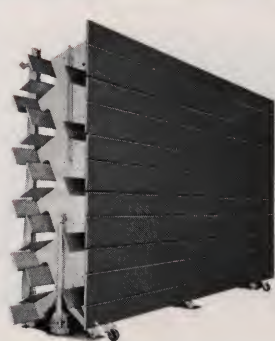
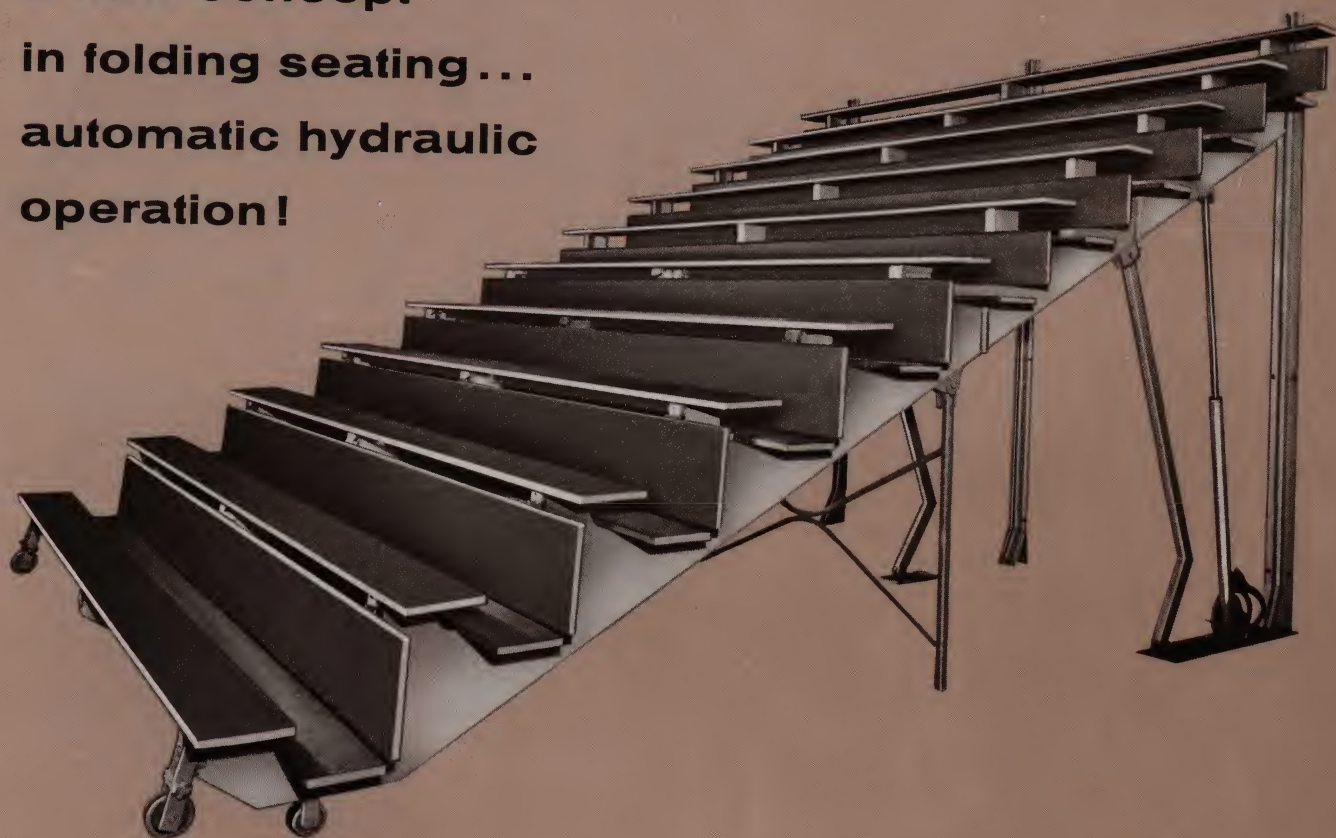


THE MARK OF QUALITY



# Automatic Folding GYMNASIUM SEATING

a new concept  
in folding seating ...  
automatic hydraulic  
operation !



BARBER-COLMAN COMPANY • ROCKFORD, ILLINOIS



# BARBER-COLMAN Automatic FOLDING BLEACHERS

Hydrofold Bleachers on balcony and main floor providing maximum utilization of space in East High School, Waterloo, Iowa.



Continuous fifty foot lengths of Hydrofold Bleachers in open and partly closed positions showing operation.



## HYDRAULIC ACTION!

Barber-Colman Company presents an entirely new concept in gymnasium seating design — hydraulic folding bleachers. *Hydrofold Bleachers* fold rather than telescope thus eliminating metal-to-metal operating friction and 90% of trouble causing linkages. Fully automatic Hydrofold operation is push-button simple — a touch of a lever in the compact electro-hydraulic operating cabinet completely opens, closes, or stops and locks the entire unit in any position. Seating for the entire gymnasium automatically opens and stores in minutes — no tractors or add-on operating units required. After-game cleaning is fast and easy. Hydrofold bleachers are self-cleaning as they close and debris does not interfere with operation. Custodian service time is cut as much as 60% because all cleaning can be done after the units are completely stored.

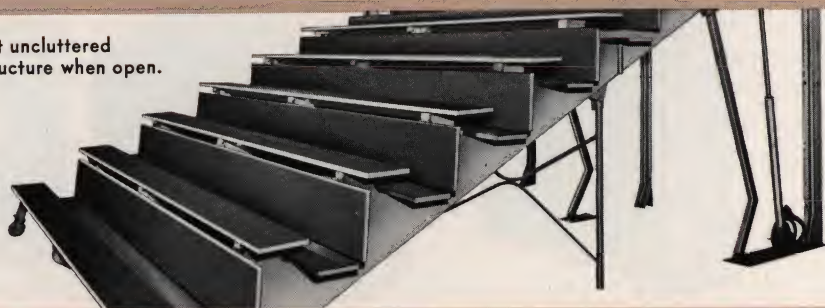
Hydrofold bleachers exceed all safety requirements of the American Standards Association. Structurally engineered base stringers and diagonal bracing are scientifically combined to permit continuous seating units up to 50 feet long and 20 rows high. Side sway is completely eliminated. Service is no longer a problem — there are no complicated linkages and springs to go out of adjustment. The electro-hydraulic operating system is smooth, safe, and efficient.

When stored the flush vertical front assures handsome appearance and maximum protection. There are no protruding edges or parts to cause injury or collect dust. Seats, risers and footboards made from select, vertical-grain, seasoned lumber, laminated with hardboard are furnished as standard. Select, edge glued, vertical laminated, Douglas Fir or solid structural Douglas Fir seat, riser, and footboards optional. All boards are factory pre-finished with one coat of quality clear sealer and one coat of super spar varnish.



Attractive, flush vertical front when stored.

Safe, yet uncluttered understructure when open.





# SPECIFICATIONS

## TABLE OF DIMENSIONS

NUMBER ROWS	DEPTH OPEN		DEPTH CLOSED	HEIGHT OPEN	HEIGHT CLOSED	
	22" DEPTH PER ROW	24" DEPTH PER ROW			22" DEPTH PER ROW	24" DEPTH PER ROW
HYDROGLIDE	3	4' - 8"	5' - 0"	2' - 9"	3' - 4"	5' - 4"
	4	6' - 6"	7' - 0"	2' - 9"	4' - 3"	7' - 5"
	5	8' - 4"	9' - 8"	2' - 9"	5' - 3"	9' - 6"
	6	10' - 2"	11' - 0"	2' - 9"	6' - 2"	11' - 7"
	7	12' - 0"	13' - 0"	2' - 9"	7' - 1"	13' - 7"
	8	13' - 10"	15' - 0"	2' - 9"	8' - 1"	15' - 8"
	9	15' - 8"	17' - 0"	2' - 9"	9' - 0"	17' - 9"
HYDROFOLD	7	12' - 0"	13' - 0"	4' - 9"	7' - 1"	7' - 3"
	8	13' - 10"	15' - 0"	4' - 9"	8' - 1"	7' - 11"
	9	15' - 8"	17' - 0"	4' - 9"	9' - 0"	9' - 4"
	10	17' - 6"	19' - 0"	4' - 9"	10' - 0"	10' - 0"
	11	19' - 4"	21' - 0"	4' - 9"	10' - 11"	11' - 5"
	12	21' - 2"	23' - 0"	4' - 9"	11' - 10"	12' - 2"
	13	23' - 0"	25' - 0"	4' - 9"	12' - 10"	13' - 5"
	14	24' - 10"	27' - 0"	4' - 9"	13' - 9"	14' - 3"
	15	26' - 8"	29' - 0"	4' - 9"	14' - 9"	15' - 5"
	16	28' - 6"	31' - 0"	4' - 9"	15' - 8"	16' - 2"
	17	30' - 4"	33' - 0"	4' - 9"	16' - 7"	17' - 6"
	18	32' - 2"	35' - 0"	4' - 9"	17' - 7"	18' - 3"
	19	34' - 0"	37' - 0"	4' - 9"	18' - 6"	19' - 7"
	20	35' - 10"	39' - 0"	4' - 9"	19' - 5"	20' - 3"

Rise per row 11 $\frac{3}{8}$ "

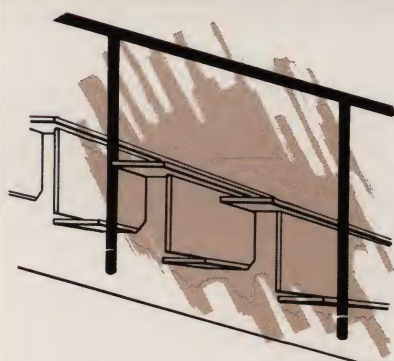
## SHORT SPECIFICATION

Folding gymnasium seating shall be Hydrofold Bleachers as manufactured by Barber-Colman Company, Rockford, Illinois, and shall be of size shown on plans. All units shall be fully automatic with hydraulic operating mechanism and constructed in accordance with American Standards Association File Z 20.3 "Safety Code for Grandstands" Section 3.3. Manufacturer shall furnish recent test data by independent laboratory showing horizontal and lateral deflections in conjunction with above tests.

Folding gymnasium seating shall be delivered and installed by manufacturer or authorized representative. The entire installation shall be guaranteed for one year against faulty materials, workmanship, and operation.

Accessories shall be furnished as indicated on drawings and/or as scheduled below:

## ACCESSORIES



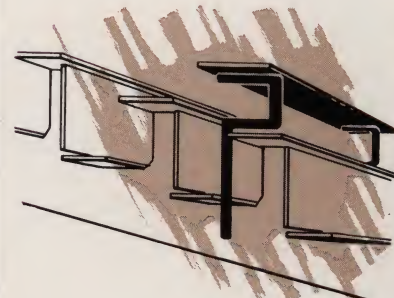
### REMOVABLE END RAILS

End rails of 1 $\frac{3}{4}$ " O.D. steel tubing may be quickly installed by insertion into steel sockets welded to the base stringers. The rails may be easily removed, folded, and stored when not in use.



### END CLOSURES

To insure a complete protective enclosure and give the seating unit a clean, handsome, compact look, End Closures are available. Made of sturdy  $\frac{3}{4}$ " plywood, the End Closures will completely conceal all mechanism.



### TIMER'S TABLE

The timer's table is easily installed by inserting the legs of the table into sockets welded to the base stringers. When not in use, the table legs may be folded for easy storage. The table is normally mounted between the second and third row of bleacher seats.

## HYDROGLIDE BLEACHER

In answer to the need for bleachers in small gymnasiums, where floor space is a premium, Barber-Colman Company engineers have designed the Hydroglide bleacher. Basically, the same working principles are involved in Hydroglide as in Hydrofold. Instead of the "jack-knifing" effect as employed with Hydrofold — Hydroglide rolls along the floor and rises parallel to the wall in one continuous unit. When stored it takes up only 2'9" of floor space, and is the perfect bleacher for the small gymnasium.



*trouble-free hydraulic action!*

**BARBER-COLMAN**

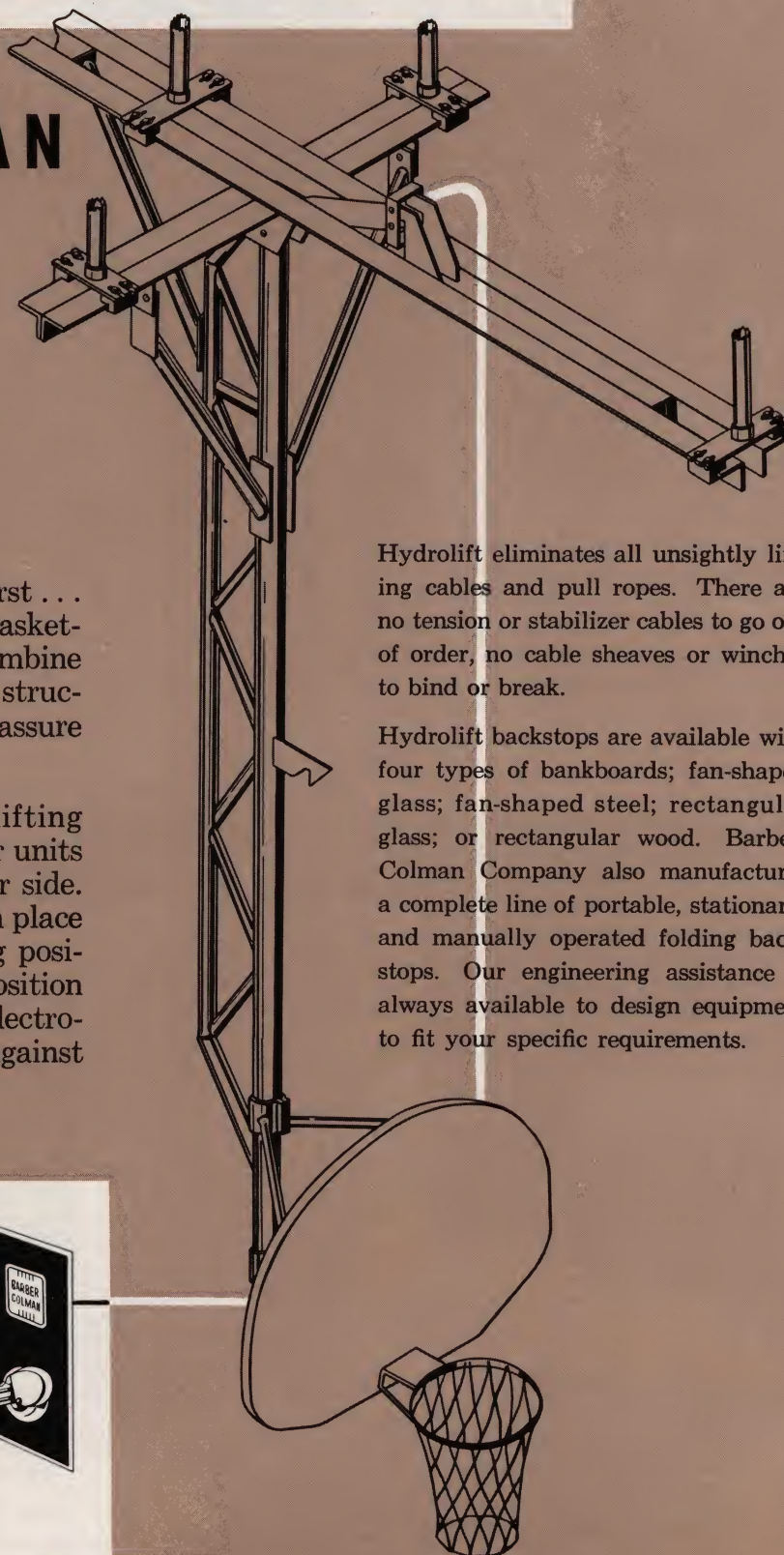
*Hydrolift*

**BASKETBALL  
BACKSTOPS**

Another Barber-Colman engineering first...  
*simple* automatic upward folding basketball backstop! Hydro-lift backstops combine trouble-free hydraulic operation with structurally engineered construction to assure years of maintenance-free service.

Economical, timesaving, hydraulic lifting system simultaneously folds up to four units compactly to the front, back, or either side. Backstops automatically lock rigidly in place to minimize vibration when in playing position. They also lock when in raised position for positive safety. Keyswitch on electro-hydraulic operating cabinet insures against unauthorized operation.

*just turn a key...*



Hydrolift eliminates all unsightly lifting cables and pull ropes. There are no tension or stabilizer cables to go out of order, no cable sheaves or winches to bind or break.

Hydrolift backstops are available with four types of bankboards; fan-shaped glass; fan-shaped steel; rectangular glass; or rectangular wood. Barber-Colman Company also manufactures a complete line of portable, stationary, and manually operated folding backstops. Our engineering assistance is always available to design equipment to fit your specific requirements.

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